# *Replication and Network Centric Operations*

## How can we shape the future?

**CDR Scot Miller**
**Director**
**Network Centric Innovation Center**
**12 June 2000**

# *Who am I?*
# *Why am I here?*

- **Director, Network Centric Innovation Center**
- **Facilitate IT solutions that move deploying units from platform centric operations to network centric operations**

**"I see the Center as the brokers of innovative ideas, providing tangible products to the fleet using what we have available"**

**VADM McGinn, 17 June 100**

# What did the STENNIS BG proof of concept show?

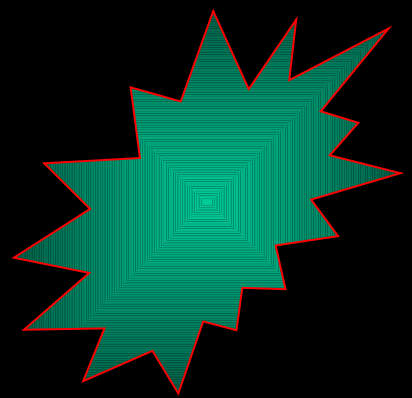
- **Assured website access with fast retrieval**
- **Intuitive collaboration**
- **Movement towards Network Centric Warfare at the planning and coordination level**
  - **increased big picture awareness in BG**
  - **speed of command (more efficient processing of available information)**
  - **improved collaboration (sharing)**

**WeCan demonstrated similar results at <u>tactical</u> level (exercise and actual operations)**

# *Breaking news…*

**The Daily News**

*NORFOLK* - **CLF announce they would install Dom replication, Notes clien and Sametime chat for Atlantic Fleet BGs and ARGs, starting almost immediately…**



***Which means…***

We have an opportunity **Navy-wide** to achieve what's been demonstrated in the STENNIS BG:

- more awareness
- increased sharing
- improve and change operating processes

***And perhaps even…***

- achieve interoperability
- save $$$

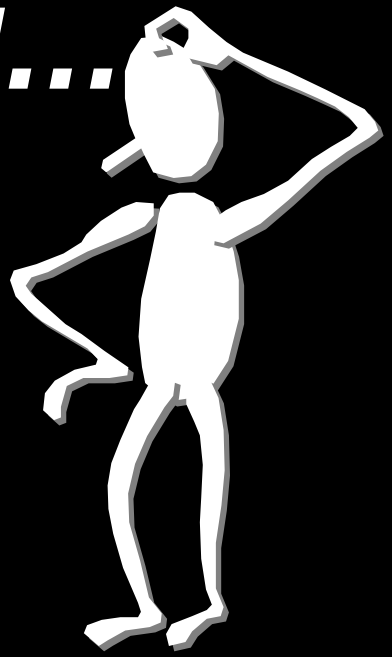
# *I have a dream…*

- **Centralize administration**
- **Commonality throughout the fleet; best ideas from across the fleet**
- **Reduce training requirements**
- **Small number of developers can have large impact using a common development environment**
- **Fast & responsive**
- **Gives some oversight**

# *How?*

**Create an organization which manages website design, template development, replication administration, and facilitates installations and training...** ***for the Fleet.***

# *This might be hard…*



- **Everyone is a novice**
- **Competing ideas**
- **How much standardization?**

***Please remember…***

**We’re test driving new ideas**

**Respectfully request your input**

# *Twelve who tried*

C2F

CCDG-12

CCG-4

CCDG-3

CAPT Marlowe

CAPT Fordice

CDR Fink

LT Trosien

CCG-1

C3F

LCDR Zbinden

CDR Mill

Cpt Taylor

Martin Jordan

LCDR Orochevesky

Mitzi Wertheim

NSAWC

CDR Browne

CDR Harvey

SPAWAR

CNO N6

CNA

Reserves

# *Vision*

*Standardizing common applications of IT tools, templates, and operational web design across the Navy to improve warfighting effectiveness and efficiency, achieve interoperability, and minimize training requirements.*

**DRAFT**

# *Guiding principles*

- **Engage the operator**
- **Information sharing is everyone's responsibility**
- **Keep it simple and intuitive**
- **We collect data; we present information**
- **Be responsive**
- **Enter data once**
- **Information context is critical**
- **Presentation matters**
- **Seek Joint and Combined interoperability**

**DRAFT**

# *Functions*

- **Configuration Management - Software - Replication topology**
- **24 by 7 virtual management center**
- **Foster operational process improvement**
- **Fleet innovation response cell (Template Development Management)**
- **Tactics, Techniques, and Procedures Oversight (ORG facilitates and others perform)**
- **Repository for operational website hardware/software capabilities and possibilities**
- **Training (ORG facilitates and others perform)**
- **Future (Keep up the pace of technology, but do it with discipline)**

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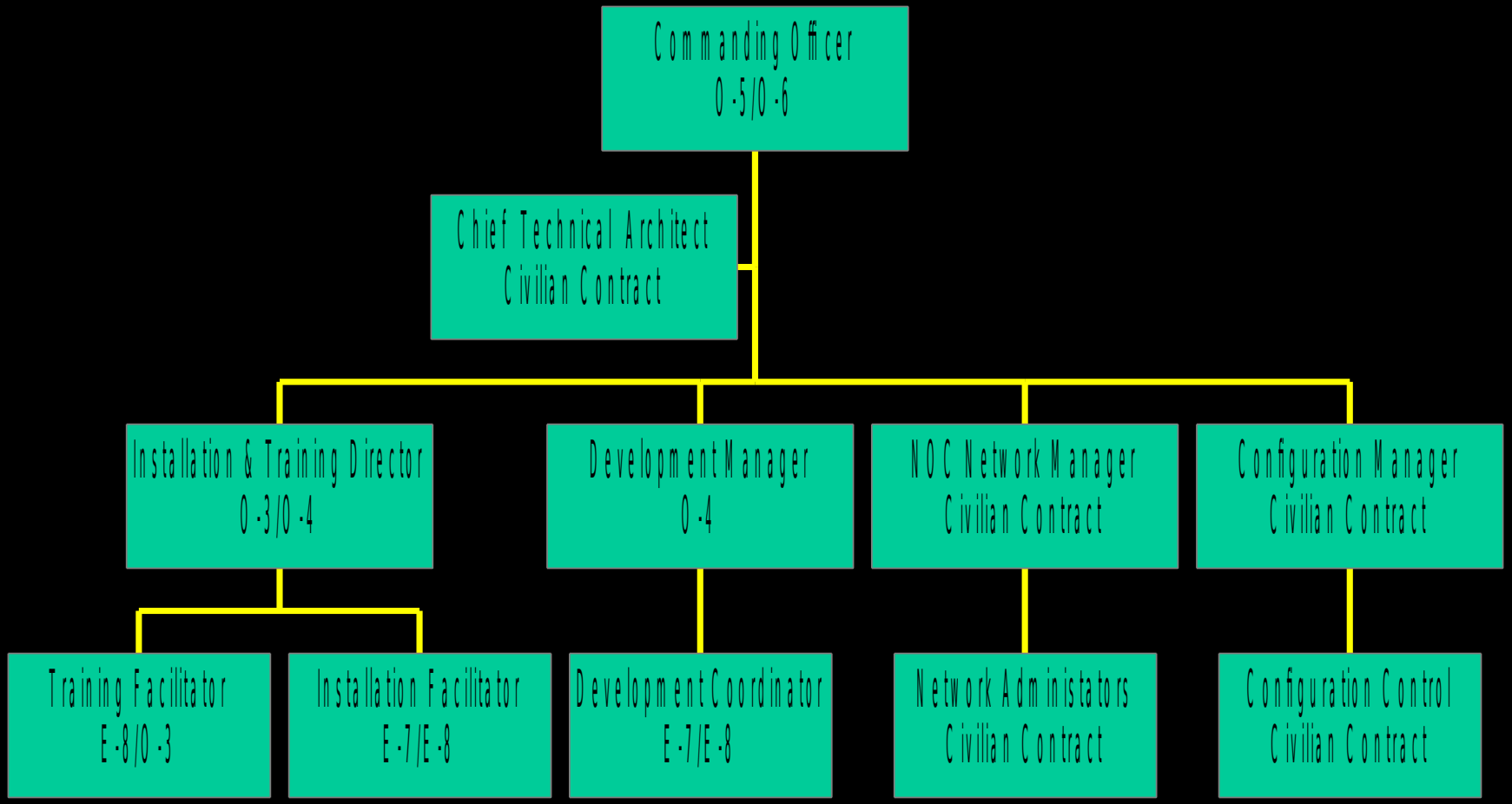
# Proposed Structure

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# *Short term approach*

| | |
|---|---|
| **Config management** | **NCIC and CLF** |
| **24 x 7 support** | **CLF & PRNOC support** |
| **Process improvement** | **Capitalize on SPs** |
| **Fleet innovation response team** | **NCIC manage and respond** |
| **TTP oversight** | **Need MOA with # fleets** |
| **Fleet knowledge repository** | **Extend NCIC knowledge repository** |
| **Facilitate training** | **part of NCIC SP SOW** |
| **Pace technology** | **NCIC has technical advisor** |

# *"The Future"*

- **Maintain vision consonant with technology**
- **Already on scope:**
  - **Q-70/thin clients**
  - **Smart cards**
  - **Allied/Coalition**
  - **WeCan**
  - **Quiver**
  - **NWPS**
  - **MLS**

***ep up the pace of technology, but do it with discipli***

- RADM Balisle, CCDG-3, May 00

# *Checklist for Success*

- Benchmarking
- Evaluation and reporting of positive and negative problems
- Develop the technical and managerial talent
- Monitor best practices
- Establish watch points
- Always consider people,process,and technology
- Establish in-house test laboratory
- Outsource
- Pursue enterprise wide solutions
- Maintain close liaison with the enterprise
- Identify change-inhibitors
- Establish a vision

# The Power Theorem of Network Centric Operations*

**Axiom: 1. Knowledge is in your head**
**2. Knowledge is power**

**(1) Info + Experience = Knowledge**

**(2) If we increase info sharing, then more experienced people get info**

**(3) More experienced people with info = more knowledgeable people**

**(4) More people x greater knowledge per person = Much more knowledge in the force**

**(5) By axiom #2, <u>Force is much more powerful</u>!**

*aka Metcalfe's Law

# *How can you help?*

- **Provide feedback**
- **Support Navy-wide concept**
- **Assign a BG/ARG Knowledge manager**
- **Understand your info exchange requirements**